

CLAIMS

1/ A part made of thermoplastic material, wherein the material comprises:

- recycled polyethylene terephthalate;
- 5 • recycled high density polyethylene;
- a compatibility agent; and
- a reinforcing filler.

2/ A part according to claim 1, wherein the thermoplastic material substantially comprises, by weight:

- 49% to 63.5% polyethylene terephthalate;
- 27% to 36% high density polyethylene;
- 4% to 6% compatibility agent; and
- 15 • 5% to 10% reinforcing filler.

3/ A part according to claim 2, wherein the thermoplastic material substantially comprises, by weight:

- 55% polyethylene terephthalate;
- 33% high density polyethylene;
- 20 • 5% compatibility agent; and
- 7% reinforcing filler.

4/ A part according to claim 1, wherein the reinforcing filler comprises glass flakes.

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5/ A part according to claim 1, wherein the reinforcing filler comprises glass fibers.

6/ A part according to claim 1, wherein the reinforcing filler comprises glass microbeads.

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7/ A method of manufacturing a bar according to claim 1, the method comprising the following steps:

- drying flakes of recycled polyethylene
- 35 terephthalate;
- introducing said dried flakes of polyethylene terephthalate, flakes of recycled high density

polyethylene, the compatibility agent, and the reinforcing filler into an extruder in order to obtain a paste mixture; and

- 5 · introducing the paste mixture into a mold placed directly at the outlet from the extruder.

8/ A method according to claim 7, including a subsequent step of cooling the mixture contained in the mold.

- 10 9/ A goods pallet, comprising parallel support elements having end portions fixed by assembly means to cross-connection beams resting on brackets, and wherein at least one of said elements/beams is constituted by a part in accordance with claim 1.

- 15 10/ A pallet according to claim 9, wherein at least one of the cross beams is of channel section having a top flange on which the support elements are fixed, and a web and a bottom flange which are both hollowed out by at least one notch to form on either side thereof two
20 brackets that are spaced apart and formed integrally with the top flange.

- 25 11/ A pallet according to claim 9, comprising at least one stiffener element extending parallel to the support element at a distance therefrom and between two opposite brackets, the stiffener element being in the form of a plank.

- 30 12/ A pallet according to claim 11, wherein the bottom surface of the plank-shaped element is grooved.

- 35 13/ A pallet according to claim 11, wherein the stiffener element comprises at least one chamfer formed in at least one of its top longitudinal edges.